<u>Abstract</u>

The invention concerns a rotor blade of a wind power installation and a wind power installation.

The object of the present invention is to provide a rotor blade having a rotor blade profile, and a wind power installation, which has better efficiency than hitherto.

A rotor blade of a wind power installation, wherein the rotor blade has a thickness reserve approximately in the range of between 15% and 40%, preferably in the range of between about 23% and 28%, and wherein the greatest profile thickness is between about 20% and 45%, preferably between about 32% and 36%.

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|----------------------|----------------------|----------------------|------------------------|
| 1.000000 | 0.013442 | 0.000197 | -0.007376 |
| 0.983794 | 0.020294 | 0.000703 | -0.013612 |
| 0.958357 | 0.030412 | 0.001550 | -0.019816 |
| 0.930883 | 0.040357 | 0.002704 | -0.025999 |
| 0.899462 | 0.050865 | 0.004080 | -0.032162 |
| 0.863452 | 0.062358 | 0.005649 | -0.038281 |
| 0.823890 | 0.074531 | 0.007477 | -0.044316 |
| 0.781816 | 0.086987 | 0.009639 | -0.050245 |
| 0.737837 | 0.099513 0.111993 | 0.012124 0.014883 | -0.056078 |
| 0.692331 0.645363 | 0.111993 | 0.014883 | -0.061829 -0.067491 |
| 0.597614 | 0.124434 | 0.017903 | -0.067491 |
| 0.549483 | 0.130709 | 0.021204 | -0.078485 |
| 0.503007 | 0.160228 | 0.028618 | -0.083809 |
| 0.481036 | 0.170758 | 0.032721 | -0.089004 |
| 0.425769 | 0.179639 | 0.037087 | -0.094062 |
| 0.397598 | 0.186588 | 0.041711 | -0.098973 |
| 0.374996 | 0.191889 | 0.046594 | -0.103723 |
| 0.356186 | 0.195840 | 0.051740 | -0.108301 |
| 0.339750 | 0.198668 | 0.057150 | -0.112695 |
| 0.324740 | 0.200524 | 0.062824 | -0.116897 |
| 0.310542 | 0.201512 | 0.068769 | -0.120893 |
| 0.296731 | 0.201704 | 0.074991 | -0.124669 |
| 0.232999 | 0.201174 | 0.081500 | -0.128219 |
| 0.269154 | 0.200007 | 0.088310 | -0.131521 |
| 0.255115 | 0.198267 | 0.095450 | -0.134551 |
| 0.240876 | 0.195985 | 0.102955 | -0.137294 |
| 0.226479 | 0.193185 | 0.110872 | -0.139735 |
| 0.212006 | 0.189892 | 0.119262 | -0.141872 |
| 0.197571 | 0.186146 | 0.128192 | -0.143724 |
| 0.183315 | 0.181995 | 0.137734 | -0.145316 |
| 0.169384 | 0.177505 | 0.147962 | -0.146667 |
| 0.155924 | 0.172745 | 0.158934 | -0.147800 |
| 0.143051 | 0.167780 | 0.170663 | -0.148727 |
| 0.130850 0.119369 | 0.162675 0.157478 | 0.183106 0.196155 | -0.149431 |
| 0.108625 | 0.152229 | 0.190155 | -0.149877 -0.150001 |
| 0.098610 | 0.146953 | 0.223475 | -0.149715 |
| 0.089297 | 0.141664 | 0.237539 | -0.148932 |
| 0.080653 | 0.136362 | 0.251855 | -0.147579 |
| 0.072636 | 0.131036 | 0.266497 | -0.145597 |
| 0.065201 | 0.125679 | 0.281578 | -0.142949 |
| 0.058312 | 0.120269 | 0.297206 | -0.139628 |
| 0.051931 | 0.114786 | 0.313400 | -0.135651 |
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| 0.040531 | 0.103598 | 0.347173 | -0.125692 |
| 0.035457 | 0.097893 | 0.364627 | -0.119588 |
| 0.030772 | 0.092113 | 0.382602 | -0.112537 |
| 0.026461 | 0.086252 | 0.401480 | -0.104293 |
| 0.022520 | 0.080332 | 0.421912 | -0.094548 |
| 0.018937 | 0.074321 | 0.444568 | -0.083182 |
| 0.015688 | 0.068240 | 0.468376 | -0.071217 |
| 0.012771 | 0.062095 | 0 491608 | -0.060017 |
| 0.010196 | 0.055378 | 0 514034 | -0.049898 |
| 0.007926 0.005911 | 0.049601 | 0.535806 0.557225 | -0.040854 |
| 0.005911 | 0.043298 0.036989 | 0.557225 | -0.032760 |
| 0.002755 | 0.030661 | 0.600131 | -0.025495 -0.018956 |
| 0.001709 | 0.024300 | 0.600131 | -0.013059 |
| 0.000953 | 0.017915 | 0.644620 | -0.013039 |
| 0.000415 | 0.017515 | 0.667811 | -0.007735 |
| 0.000088 | 0.005186 | 0.691690 | 0.001179 |
| 0.000000 | 0.000000 | 0.716104 | 0.004827 |
| | 0.00000 | 0.740707 | 0.007908 |
| | | 0.364985 | 0.010392 |
| | | 0.788448 | 0.012236 |
| | | 0.810817 | 0.013425 |
| | | 0.832004 | 0.013957 |
| | | 0.852100 | 0.013834 |
| | | 0.871284 | 0.013058 |
| | | 0.889797 | 0.011606 |
| | | 0.907926 | 0.009441 |
| | | 0 925997 | 0.006502 |
| | | 0.944381 | 0.002701 |
| | | 0.963552 | -0.002134 |
| | | 0.984409 | -0.008335 |
| | | 1.000000 | -0.013442 |
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